

Title (en)

TURBOCHARGER SYSTEM FOR AIR-THROTTLED ENGINES

Title (de)

TURBOLADERSYSTEM FÜR MOTOREN MIT ENTLÜFTUNGSDROSSEL

Title (fr)

SYSTÈME DE TURBOCOMPRESSEUR POUR MOTEURS ÉQUIPÉS D'UN OBTURATEUR D'AIR

Publication

**EP 2449225 A4 20140528 (EN)**

Application

**EP 10794594 A 20100628**

Priority

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- US 22276609 P 20090702

Abstract (en)

[origin: WO2011002697A2] A turbocharger system for an air-throttled engine includes a variable flow expander (VFE) in the intake air conduit system that supplies intake air to the engine. At part-load operation, the VFE expands the air by an amount that is controllable, and thus regulates the air flow as needed by the engine. The power extracted by the VFE from the intake air flow is fed to the turbocharger, which helps to achieve quicker turbocharger response and improve scavenging of exhaust gases from the engine. The VFE can be a variable expansion ratio turbine.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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- [YA] US 2007033939 A1 20070215 - WANG LIN-SHU [US], et al
- [A] US 5904045 A 19990518 - KAPICH DAVORIN D [US]
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- See references of WO 2011002697A2

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DOCDB simple family (publication)

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